

MODIS Principal Investigator Processing Meeting

May 12, 1999

MINUTES

Review of Agenda - Eric Vermote

Adjustment of SIPS Presentation (Tan Aslam) to 2:40 pm.

Review of Action Items - Delayed to later in agenda (see separate file)

MODAPS Test Plan Update - Ed Masuoka

MOSS-2 6/16-6/18 will extend lessons from Terra End-to-end Science System (TESS) test.

Question on schedule.

MOSS-2 will use two days of synthetic data and one data of data from the spacecraft. The details being worked. It is leading up to a Y-day test need to work tandem production with DAAC.

Global Open Items: the test of all interfaces and reconfigure hardware for launch.

Question (Wayne Esaias): Who is the point-of-contact for MODAPS resource allocation?
Discussion regarding utilization of resources and honor system for PI's regarding their allocations.

Question: Can you push level 2 data to local systems - some fraction for test purposes?

Answer: yes, but an ICD or MOU is needed, i.e., the MODAPS/Vermote SCF MOU.

SSTG (Science Software Transfer Group) Plans - Mike Linda

17 PGE's are ready and 15 others almost at hand. The situation will improve over the next few days.

Several MODAPS integration issues came up.

Ocean - Mike Linda

Ocean delivery from Miami on 2/3/99 is still being worked. Some PGEs have taken 2.5 months to be declared ready by SSTG. A new set of Ocean PGE's was just delivered.

Integration schedule runs through mid-June. The work schedule is driven by the priority of given PGE.

5/20/99 is the last window of opportunity to drop PGE's to MODAPS for at launch. A 5/9/99 delivery is too late for MOSS-2. PGEs 9, 10 and 20 may make it (Ed Masuoka).

The Level 1A Subsetter is on fast track for delivery to Miami. SDST still needs help from the developers.

There is speculation about how groups could be helped by having list of what is needed. Are people following guidelines? Software had recent big change from Oceans. When the developer comes and works locally, it does speed up turn around time. Bob Evans says 5 fold speedup is in the works? Would it be possible for Sue Walsh to come up here after jury duty?

Atmosphere – Rich Hucek

Question: If PGE03 goes to CM on 5/27/99 how fast will it get to the DAAC. Ed Masuoka says they need to get back regarding actual date around 5/30/99.

Delivery of PGE06 is expected to happen today. PGE06 will go to CM by 5/28/99.

DAO assimilation maybe needs to be delayed since it is 2 by 2.5 degree data set should be used only if failure of primary data set.

Land - Mike Linda

Finish L1B readers. PGE16 is questionable for MOSS-2. May want to get Dr. Wan here to work situation.

SDST can plan only 4-6 weeks into future due to dynamics. Lower priority PGE's are backlogged.

Production Coordination – Mike Teague

X-Day Test will be run in MODAPS, not DAAC. SDDTs need to set goals and overall test plan. MODAPS will be doing many things, many goals identified.

POCs: Mike Teague (MODAPS), Nazmi El Saleous (SDDT-land), Bill Ridgeway (SDDT-atmosphere), Bob Woodward (SDDT-ocean)

List of Products for X-Day Test. Need an assessment of what will really be ready by May 19 start. Data in test is days 223-224, 1997. It may also include updated synthetic from days 65-66, 1999.

Weekly plans are now being provided. Comment on plans will be done during a daily telecon and e-mail. It is best to have local representative.

Question: What drives the daily planning and what changes the plans? Answer: Process failures and the quality of the products. However, constantly dropping in new PGE's in makes production assessment more difficult. PGE06 offered again as an example of difficulties. Several minutes of discussion. Must work with Goddard DAAC.

More discussion needed on X-day test.

X-Day Test Plan

Overview of Plan to Launch - Robert Wolfe

Schedule runs daily May 10 to July 26:

June 7 is dry run for MOSS-2, depends on prior events

June 16 MOSS-2

June 21 begin Y-Day Test

Focuses on Launch on July 28

X-Day Activities - Ed Masuoka

Schedule by day of week for May-June to MOSS-2 is aggressive. There are a large number of items still in delivery plans. L0 is only adequate. Ancillary data may not be robust. Will not make "perfect" product because "perfect" inverter is still in development.

There are a number of PGE's not adapted to the new L1B format. Most ancillary data is not an issue. Minor issue with binary ephemeris and attitude. MODIS needs to make a decision regarding specific day for synthetic data for MOSS-2. Does a specific discipline have to go with specific day in 1999?

Need to get PGE06 taken care of.

Need one days of real MODIS spacecraft data from March. Is DAAC responsible?

MOSS-2 Test Plan – Tan Aslam

Days 63-64, 1999 have no ozone data so data not useful.

Ingest and process day 224. Eric Vermote says 225 is better than substituting a 1999 day for 225. Ed Masuoka said we should use what we want.

Focus should be on demonstration of performance.

MOSS-2 coordination meeting will be held on May 13. Need to watch for the volume of data. An extended discussion followed. Performance is what this test is about. We need to show one or two granules end-to-end.

PDR server issue: Need to see SIPS interface working.

EDC Archive Issues: ASTER, MODIS and Landsat share machines and resources for archiving and distribution.

BREAKOUT MEETING *(PI'S OUT OF THE ROOM)*

Lessons learned: "TESS Insert Bestiary" presentation. The manual process of get MCF's to match did not work. Twelve point plan presented by Mike Linda to do better.

Extended discussion of 12 Point Plan.

Timeline was developed (see separate email).

BACK TO REGULAR MEETING *(PI'S BACK)*

MODAPS HARDWARE STATUS - Ed Masouka

Handouts provided with charts - Fibre Channel is shared 1000 Mbps.

Sol Broder and Curt Tilmes are POCs for ports and IP addresses.

SDST discovered the SGIs contained several 195 MHz CPUs, not all 250 MHz. We are starting with one 8 CPUs module of 195 MHz CPUs until 250 replacements are available in 45 days.

For locals: the servers are physically moving which will lead to some address changes.

Tape Drives - in the process of buying another one so a hot spare is available for use during routine servicing.

CM PROCEDURES STATUS - Mike Teague

About six months ago CM found to need improvement. Need to minimize schedule impacts. Staffing issues are being addressed.

PGE's - First group to support X-Day. Second Group supports statement that we are read for launch. Third group supports post-launch.

CM will have what is needed to support launch.

Question: Does Clear Case keep a snapshot of previous code? Answer: Yes. How to label version is in development. There is an approach that has not been implemented yet. A gate keeper is needed, perhaps production management group. There needs to be a formality to the process.

SIPS Interface Development Status - Tan Aslam

Bad DN detection/Error Processing - Eric Vermote questioned preparedness. Right now error recovery is difficult. MODIS could change ICD for more robust error recovery. Part of global reprocessing problem. At a minimum, tracking is needed. Build some functionality around the event. Can imagine a solution.

SIPS Status: Testing of delivery mechanism started - one granule sent to PDR server today. Plan is to gradually test interfaces to DAACS. Directory structure is under discussion with ECS.

Two part approach will be taken, first manual then automated. There is a concern about ancillary data.

Updates from DAACs on Processing, Archival, Distribution and Test Schedule

GDAAC STATUS – Bruce Vollmer

PGE01 is *green*. PGE02 needs confirmation from Operations. PG03 had some failures. Something may have changed in ECS. Had different versions on system. Some manual intervention is required. There is a known bug in distribution system - a fix is being delivered this week.

Robert Wolfe had questions on subscription and search capabilities. Inserts of L2+ ocean and atmosphere products produced in MODAPS are not planned for MOSS-2.

Mike Linda had question on PGE02 - verification of SSIT test.

QA update was successful using several science products during TESS. Tool will be delivered to the other DAACs.

EDAAC STATUS – Jim Lacasse

4PY will be installed in the next two weeks. Transition for Landsat is biggest issue.

Drop 5A is expected to become operational around 8/30. Scheduling in short term mode - using placeholders in schedule.

Going operational with Landsat 7, so care must be taken so moving Drop 5A to OPS mode for TERRA does not impact Landsat.

Extended Discussion of subscription issues. May begin to see full transfer rate leading up to MOSS-2. FDDI may have limited capacity. A work off plan is needed for network issues.

NDAAC Status - Siri Jodha Singh Khalsa.

4PY is in OPS mode.

Subscriptions were successful during TESS (but local only). Product ordering was successful (again locally) - 8mm, ftp pull. Got SCF email with QA updates from George Riggs.

Currently working EGS 10 and 11.

NDAAC and SIPS Interface - will be in ECS 5A, due July 15.

ANCILLARY DATA STATUS - Shirley Read

Showed data sets that are required and optional.

DAO Ozone data set not delivered

Days 48 to 65, 1999, have to be staged. Cannot all be there at same time. A decision was made not to use any 1999 DAO data and withdraw request from DAO.

DAO data sets are now going to be 1 degree by 1 degree using different model. Data in original and new formatted needed to test science.